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Dkt. 62935/PJP

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Vladimir Andreevich Bushuev
Serial No. : 09/649,431
Filed : August 25, 2000
For : PROCESS FOR PRODUCING LOW-MOLECULAR OLEFINS,
REACTOR FOR PYROLYSIS OF HYDROCARBONES AND
APPARATUS FOR QUENCHING CRACKED GAS

1185 Avenue of the Americas
New York, New York 10036
January 9, 2001

Assistant Commissioner for Patents
Washington, D.C. 20231

SIR:

PRELIMINARY AMENDMENT

Prior to examination of the above-identified application, please
enter the following amendments:

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JAN 17 2001
TC 1700 MAIL ROOM

In the claims

Please amend claim 1 as follows, by adding the underlined material
and deleting the bracketed material:

1. (Amended) A process for producing low-molecular
olefins by pyrolysis of hydrocarbons, which comprises preheating
and evaporating a starting feedstock, mixing the same with a steam-
diluent, and heating [a] the resulting mixture to the pyrolysis
temperature in a blading rotary reactor [by heat generated inside
a volume of the mixture due to hydrodynamic drag of the rotor
blades rotating therein, quenching a cracked gas and subsequent
separation of it], wherein the said heating the resulting mixture